Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Modified Estimate for Comprehensive Development of Roads and Drains at Deo Marvel layout, AMS layout, Swagath layout, Akashavani layout, Chowdappa layout and GKVK layout in ward no 03 & 04 of Yelahanka division (Package No. 03)

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.								
		Cum							
	RCC Drain								
	Swagat Layout								
	5th Cross Road (RHS)		1	260.70	1.10	1.00	286.77		
	4th Cross Road								
	RHS		1	204.50	1.10	1.00	224.95		
	LHS		1	204	1.10	1.00	224.18		
	Road Connecting 4th & 5th Cross								
	RHS		1	25.00	1.10	1.00	27.50		
	LHS		1	25.00	1.10	1.00	27.50		
	Akashavani Layout								
	2nd Cross Road								
	LHS		1	97.00	1.10	1.00	106.70		
	RHS		1	97.00	1.10	1.00	106.70		
	Venugopal Layout								
	4th Cross Road								
	LHS		1	72.00	1.10	1.00	79.20		
	RHS		1	72.00	1.10	1.00	79.20		
	Cross Road								
	LHS		1	15.00	1.10	1.00	16.50		
	AMS LAYOUT								
	4th Main Road								
	RHS		1	178.20	1.10	1.00	196.02		
	1st Cross Road								
	LHS		1	134.40	1.10	1.00	147.84		
	RHS		1	120.40	1.10	1.00	132.44		
	2nd Cross Road								
	RHS		1	243.90	1.10	1.00	268.29		
	LHS		1	137.80	1.10	1.00	151.58		
	3rd Cross Road								
	RHS		1	217.60	1.10	1.00	239.36		
	LHS		1	153.70	1.10	1.00	169.07		
	4th Cross Road								
	RHS		1	171.10	1.10	1.00	188.21		
	LHS		1	168.80	1.10	1.00	185.68		
	5th Cross Road (L-shape)								
	RHS		1	139.00	1.10	1.00	152.90		
	New Culverts		7	6.74	1.50	0.90	63.69		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	ain Water Harvesting Pits		16	0.31		1.80	8.93		
	Brindhavana layout								
	1st A cross rd		2	31.00	1.10	0.90	61.38		
	Cross Rd		2	84.50	1.10	0.90	167.31		
	Balaji Layout								
	6th Cross Road LHS		1	106.00	1.10	0.90	104.94		
	Ambabhavani Layout								
	7th cross rd		2	201.80	1.10	1.31	581.59		
	9th Cross Road		2	30.00	1.10	0.90	59.40		
				Area					
	Rain Water Harvesting pits		8	0.31		1.80	4.46		
	Culvert		3	6.60	1.50	0.90	26.73		
	Ward 04, GKVK Layout								
	1st cross road		2	155.10	1.10	1.10	375.34		
	4th main road		1	38.30	1.10	1.10	46.34		
	Manju shree nilaya		2	82.40	1.10	1.05	190.34		
	2nd main road Professer shivarudrayya house		2	158.60	1.10	1.05	366.37		
	Ward 04, Narayanappa Layout								
	2nd cross		2	21.00	1.10	1.16	53.59		
	Culvert		2	10.40	1.50	1.20	37.44		
				Area					
	Rain Water Harvesting pits		8	0.31		1.80	4.46		
							5162.91	**226.00**	**1166818.47**
	Approved rate	226.00							
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
				Area					
	a) 40mm Jelly	Cum	32	0.30		0.40	**3.83**	**1995.67**	**7,643.42**
	Approved rate	1995.67							
3	**b) 20mm Jelly**	Cum	32	0.30		0.40	**3.83**	**1995.67**	**7,643.42**
	Approved rate	1995.67							
4	**c) Coarse sand.**	Cum	32	0.30		0.30	**2.80**	**2783.02**	**7,792.46**
	Approved rate	2783.02							
5	**d) Fine Sand**	Cum	32	0.30		0.21	**1.96**	**2783.02**	**5,454.72**
	Approved rate	2783.02							
6	**e) 12.5mm chips**	Cum	32	0.30		0.22	**2.05**	**1995.67**	**4,091.12**
	Approved rate	1995.67							

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
7	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		Rmt							
	0.63m dia HDPE Perforated		0	1.80			0.00		
							0.00	**11361.27**	**0.00**
	Approved rate	11361.27							
8	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
				Area					
		Sqm	32	0.30			**9.33**	**74.57**	**695.74**
	Approved rate	74.57							
9	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
		Cum							
	RCC Drain								
	Swagat Layout								
	5th Cross Road (RHS)		1	260.70	1.10	0.15	43.02		
	4th Cross Road								
	RHS		1	204.50	1.10	0.15	33.74		
	LHS		1	204	1.10	0.15	33.63		
	Road Connecting 4th & 5th Cross								
	RHS		1	25.00	1.10	0.15	4.13		
	LHS		1	25.00	1.10	0.15	4.13		
	Akashavani Layout								
	2nd Cross Road								
	LHS		1	97.00	1.10	0.15	16.01		
	RHS		1	97.00	1.10	0.15	16.01		
	Venugopal Layout								
	4th Cross Road								
	LHS		1	72.00	1.10	0.15	11.88		
	RHS		1	72.00	1.10	0.15	11.88		
	Cross Road								
	LHS		1	15.00	1.10	0.15	2.48		
	AMS LAYOUT								
	4th Main Road								
	RHS		1	178.20	1.10	0.15	29.40		
	1st Cross Road								
	LHS		1	134.40	1.10	0.15	22.18		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
HS		1	120.40	1.10	0.15	19.87		
2nd Cross Road								
RHS		1	243.90	1.10	0.15	40.24		
LHS		1	137.80	1.10	0.15	22.74		
3rd Cross Road								
RHS		1	217.60	1.10	0.15	35.90		
LHS		1	153.70	1.10	0.15	25.36		
4th Cross Road								
RHS		1	171.10	1.10	0.15	28.23		
LHS		1	168.80	1.10	0.15	27.85		
5th Cross Road (L-shape)								
RHS		1	139.00	1.10	0.15	22.94		
Culvert		7	6.74	1.50	0.15	10.62		
For Kerb Stones								
Swagat Layout								
5th Cross Road (RHS)		1	260.70	0.20	0.10	5.21		
4th Cross Road								
RHS		1	204.50	0.20	0.10	4.09		
LHS		1	204	0.20	0.10	4.08		
Road Connecting 4th & 5th Cross								
RHS		1	25.00	0.20	0.10	0.50		
LHS		1	25.00	0.20	0.10	0.50		
Akashavani Layout								
2nd Cross Road								
LHS		1	97.00	0.20	0.10	1.94		
RHS		1	97.00	0.20	0.10	1.94		
Venugopal Layout								
4th Cross Road								
LHS		1	72.00	0.20	0.10	1.44		
RHS		1	72.00	0.20	0.10	1.44		
Cross Road								
LHS		1	15.00	0.20	0.10	0.30		
AMS LAYOUT								
4th Main Road								
RHS		1	129.20	0.20	0.10	2.58		
1st Cross Road								
LHS		1	134.40	0.20	0.10	2.69		
RHS		1	93.40	0.15	0.10	1.40		
2nd Cross Road								
RHS		1	243.90	0.20	0.10	4.88		
LHS		1	137.80	0.20	0.10	2.76		
3rd Cross Road								
RHS		1	217.60	0.20	0.10	4.35		
LHS		1	153.70	0.15	0.10	2.31		
4th Cross Road								
RHS		1	171.00	0.20	0.10	3.42		
LHS		1	168.80	0.20	0.10	3.38		
5th Cross Road (L-shape)								
RHS		1	139.00	0.20	0.10	2.78		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	rindhavana layout								
	1st A cross rd		2	31.00	1.10	0.15	10.23		
	Cross Rd		2	84.50	1.10	0.15	27.89		
	Balaji Layout								
	6th Cross Road LHS		1	106.00	1.10	0.15	17.49		
	Ambabhavani Layout								
	7th cross rd		2	201.80	1.10	0.15	66.59		
	9th Cross Road		2	30.00	1.10	0.15	9.90		
	For kerb stone								
	Brindhavana layout								
	1st A cross rd		2	31.00	0.20	0.10	1.24		
	Cross Rd		2	84.50	0.20	0.10	3.38		
	Balaji Layout								
	6th Cross Road LHS		1	106.00	0.20	0.10	2.12		
	Ambabhavani Layout								
	7th cross rd		2	201.80	0.20	0.10	8.07		
	9th Cross Road		2	30.00	0.20	0.10	1.20		
	Culvert		3	6.60	1.50	0.15	4.46		
	Ward 04, GKVK Layout								
	1st cross road		2	153.30	1.00	0.15	45.99		
	4th main road		1	38.30	1.10	0.15	6.32		
	Manju shree nilaya		2	82.40	1.10	0.15	27.19		
	2nd main road Professer shivarudrayya house		2	158.60	1.10	0.15	52.34		
	Ward 04, Narayanappa Layout								
	2nd cross		2	21.00	1.10	0.15	6.93		
	Culvert		2	10.40	1.50	0.15	4.68		
							810.20	**5691.91**	**4611585.48**
	Approved rate	5691.91							
10	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour								
		Cum							
	RCC Drain								
	Raft								
	Swagat Layout								
	5th Cross Road (RHS)		1	260.70	0.90	0.15	35.19		
	4th Cross Road								
	RHS		1	204.50	0.90	0.15	27.61		
	LHS		1	204	0.90	0.15	27.51		
	Road Connecting 4th & 5th Cross								
	RHS		1	25.00	0.90	0.15	3.38		
	LHS		1	25.00	0.90	0.15	3.38		
	Akashavani Layout								
	2nd Cross Road								
	LHS		1	97.00	0.90	0.15	13.10		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
RHS		1	95.00	0.90	0.15	12.83		
Venugopal Layout								
4th Cross Road								
LHS		1	72.00	0.90	0.15	9.72		
RHS		1	71.00	0.90	0.15	9.59		
Cross Road								
LHS		1	15.00	0.90	0.15	2.03		
AMS LAYOUT								
4th Main Road								
RHS		1	178.20	0.90	0.15	24.06		
1st Cross Road								
LHS		1	134.40	0.90	0.15	18.14		
RHS		1	120.00	0.90	0.15	16.20		
2nd Cross Road								
RHS		1	243.00	0.90	0.15	32.81		
LHS		1	137.80	0.90	0.15	18.60		
3rd Cross Road								
RHS		1	217.00	0.90	0.15	29.30		
LHS		1	153.00	0.90	0.15	20.66		
4th Cross Road								
RHS		1	171.10	0.90	0.15	23.10		
LHS		1	168.00	0.90	0.15	22.68		
5th Cross Road (L-shape)								
RHS		1	136.00	0.90	0.15	18.36		
Brindhavana layout								
1st A cross rd		2	31.00	0.80	0.15	7.44		
Cross Rd		2	84.50	0.80	0.15	20.28		
Balaji Layout								
6th Cross Road LHS		1	106.00	0.90	0.15	14.31		
Ambabhavani Layout								
7th cross rd		2	201.80	0.90	0.15	54.49		
9th Cross Road		2	30.00	0.90	0.15	8.10		
Ward 04, GKVK Layout								
1st cross road		2	155.10	0.90	0.15	41.88		
4th main road		1	38.30	0.90	0.15	5.17		
Manju shree nilaya		2	82.40	0.90	0.15	22.25		
2nd main road Professer shivarudrayya house		2	158.60	0.90	0.15	42.82		
Ward 04, Narayanappa Layout								
2nd cross		2	21.00	0.90	0.15	5.67		
Wall								
Swagat Layout								
5th Cross Road (RHS)		2	260.70	0.15	0.60	46.53		
4th Cross Road								
RHS		2	204.50	0.15	0.57	34.85		
LHS		2	204	0.15	0.60	36.68		
Road Connecting 4th & 5th Cross								
RHS		2	25.00	0.15	0.60	4.50		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
HS		2	25.00	0.15	0.60	4.50		
Akashavani Layout								
2nd Cross Road								
LHS		2	97.00	0.15	0.60	17.46		
RHS		2	95.00	0.15	0.60	17.10		
Venugopal Layout								
4th Cross Road								
LHS		2	72.00	0.15	0.60	12.96		
RHS		2	71.00	0.15	0.60	12.78		
Cross Road								
LHS		2	15.00	0.15	0.60	2.70		
AMS LAYOUT								
4th Main Road								
RHS		2	178.20	0.15	0.60	32.08		
1st Cross Road								
LHS		2	134.40	0.15	0.60	24.19		
RHS		2	120.00	0.15	0.60	21.60		
2nd Cross Road								
RHS		2	243.00	0.15	0.60	43.74		
LHS		2	137.80	0.15	0.60	24.80		
3rd Cross Road								
RHS		2	217.00	0.15	0.60	39.06		
LHS		2	153.00	0.15	0.60	27.54		
4th Cross Road								
RHS		2	171.10	0.15	0.60	30.80		
LHS		2	168.00	0.15	0.60	30.24		
5th Cross Road (L-shape)								
RHS		2	136.00	0.15	0.60	24.48		
Brindhavana layout								
1st A cross rd		4	31.00	0.15	0.60	11.16		
Cross Rd		4	84.50	0.15	0.60	30.42		
Balaji Layout								
6th Cross Road LHS		2	106.00	0.15	0.60	19.08		
Ambabhavani Layout								
7th cross rd		4	201.80	0.15	0.90	108.97		
9th Cross Road		4	30.00	0.15	0.60	10.80		
Ward 04, GKVK Layout								
1st cross road		4	155.10	0.15	0.75	69.80		
4th main road		2	38.30	0.15	0.75	8.62		
Manju shree nilaya		4	82.40	0.15	0.70	34.61		
2nd main road Professer shivarudrayya house		4	158.60	0.15	0.75	71.37		
Ward 04, Narayanappa Layout								
2nd cross		4	21.00	0.15	0.61	7.69		
						1451.72		
Culvert Raft								
		7	6.74	1.20	0.15	8.49		
		3	6.60	1.20	0.15	3.56		
		2	10.40	1.20	0.20	4.99		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Culvert Wall								
			14	6.74	0.23	0.60	13.02		
			6	6.00	0.23	0.75	6.21		
			4	10.40	0.23	0.60	5.74		
							42.02		
							1493.74	7422.30	11086994.79
	Approved rate	7422.30							
11	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of								
		Tn							
	For Drain and Culvert						95.13		
							95.13	77677.05	7389417.77
	Approved rate	77677.05							
12	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.								
		Sqm							
	RCC Drain								
	Swagat Layout								
	5th Cross Road (RHS)		1	248.70	0.90		223.83		
	4th Cross Road								
	RHS		1	189.50	0.90		170.55		
	LHS		1	188.6	0.90		169.74		
	Road Connecting 4th & 5th Cross								
	RHS		1	25.00	0.90		22.50		
	LHS		1	25.00	0.90		22.50		
	Akashavani Layout								
	2nd Cross Road								
	LHS		1	97.00	0.90		87.30		
	RHS		1	97.00	0.90		87.30		
	Venugopal Layout								
	4th Cross Road								
	LHS		1	72.00	0.90		64.80		
	RHS		1	72.00	0.90		64.80		
	Cross Road								
	LHS		1	15.00	0.90		13.50		
	AMS LAYOUT								
	4th Main Road								
	RHS		1	178.20	0.90		160.38		
	1st Cross Road								
	LHS		1	134.40	0.90		120.96		
	RHS		1	120.40	0.90		108.36		
	2nd Cross Road								
	RHS		1	243.00	0.90		218.70		
	LHS		1	130.00	0.90		117.00		
	3rd Cross Road								
	RHS		1	200.00	0.90		180.00		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	HS		1	153.00	0.90		137.70		
	4th Cross Road								
	RHS		1	171.00	0.90		153.90		
	LHS		1	168.80	0.90		151.92		
	5th Cross Road (L-shape)								
	RHS		1	130.00	0.90		117.00		
	Brindhavana layout								
	1st A cross rd		2	31.00	0.90		55.80		
	Cross Rd		2	84.50	0.90		152.10		
	Balaji Layout								
	6th Cross Road LHS		1	106.00	0.90		95.40		
	Ambabhavani Layout								
	7th cross rd		2	201.80	0.90		363.24		
	9th Cross Road		2	30.00	0.90		54.00		
	Ward 04, GKVK Layout								
	1st cross road		2	48.90	0.90		88.02		
	4th main road		1	37.50	0.90		33.75		
	Manju shree nilaya		2	43.05	0.90		77.49		
	2nd main road Professer shivarudrayya house		2	53.35	0.90		96.03		
	Ward 04, Narayanappa Layout								
	2nd cross		2	21.00	0.90		37.80		
	1st cross road		2	81.50	0.90		146.70		
	2nd cross road		2	35.85	0.90		64.53		
	3rd cross road		1	31.00	0.90		27.90		
	4th cross road		2	12.05	0.90		21.69		
	3rd main road		1	70.00	0.90		63.00		
	4th main road LHS		1	50.00	0.90		45.00		
	cross roads		2	20.00	0.90		36.00		
	4th main road LHS		1	12.00	0.90		10.80		
	Samudaya Bhavana road		1	70.00	0.90		63.00		
							3924.99	**2453.38**	**9629491.97**
	Approved rate	2453.38							
13	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.								
		Sqm							
			7	6.74	1.50		70.77		
			3	6.60	1.50		29.70		
			2	10.40	1.20		24.96		
	Missing Culvert Slab		5	5.98	1.20		35.86		
							161.29	**5687.82**	**917365.74**
	Approved rate	5687.82							
14	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete.								
	For Drain	**Nos**							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Swagat Layout								
5th Cross Road (RHS)		1	260.70			260.70		
4th Cross Road								
RHS		1	204.50			204.50		
LHS		1	204			203.80		
Road Connecting 4th & 5th Cross								
RHS		1	25.00			25.00		
LHS		1	25.00			25.00		
Akashavani Layout								
2nd Cross Road								
LHS		1	97.00			97.00		
RHS		1	95.00			95.00		
Venugopal Layout								
4th Cross Road								
LHS		1	72.00			72.00		
RHS		1	71.00			71.00		
Cross Road								
LHS		1	15.00			15.00		
AMS LAYOUT								
4th Main Road								
RHS		1	178.20			178.20		
1st Cross Road								
LHS		1	134.40			134.40		
RHS		1	120.00			120.00		
2nd Cross Road								
RHS		1	243.00			243.00		
LHS		1	137.80			137.80		
3rd Cross Road								
RHS		1	217.00			217.00		
LHS		1	153.00			153.00		
4th Cross Road								
RHS		1	171.10			171.10		
LHS		1	168.00			168.00		
5th Cross Road (L-shape)								
RHS		1	136.00			136.00		
Deduct Front house ramp		-1	91.00			-91.00		
Brindhavana layout								
1st A cross rd		2	31.00			62.00		
Cross Rd		2	84.50			169.00		
Balaji Layout								
6th Cross Road LHS		1	106.00			106.00		
Ambabhavani Layout								
7th cross rd		2	201.60			403.20		
9th Cross Road		2	30.00			60.00		
Deduct House Front Ramp		-1	15.00			-15.00		
						3421.70	m	
						7604.00	nos	
						7604.00	454.02	3452368.08
Approved rate	454.02							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
For Drain	**Sqm**							
For Kerb								
Swagat Layout								
5th Cross Road (RHS)		1	260.70		0.40	104.28		
4th Cross Road								
RHS		1	204.50		0.40	81.80		
LHS		1	204		0.40	81.52		
Road Connecting 4th & 5th Cross								
RHS		1	25.00		0.40	10.00		
LHS		1	25.00		0.40	10.00		
Akashavani Layout								
2nd Cross Road								
LHS		1	97.00		0.40	38.80		
RHS		1	95.00		0.40	38.00		
Venugopal Layout								
4th Cross Road								
LHS		1	72.00		0.40	28.80		
RHS		1	71.00		0.40	28.40		
Cross Road								
LHS		1	15.00		0.40	6.00		
AMS LAYOUT								
4th Main Road								
RHS		1	178.20		0.40	71.28		
1st Cross Road								
LHS		1	134.40		0.40	53.76		
RHS		1	120.00		0.40	48.00		
2nd Cross Road								
RHS		1	243.00		0.40	97.20		
LHS		1	137.80		0.40	55.12		
3rd Cross Road								
RHS		1	217.00		0.40	86.80		
LHS		1	153.00		0.40	61.20		
4th Cross Road								
RHS		1	171.10		0.40	68.44		
LHS		1	168.00		0.40	67.20		
5th Cross Road (L-shape)								
RHS		1	136.00		0.40	54.40		
Deduct Front house ramp		-1	54.00		0.40	-21.60		
Brindhavana layout								
1st A cross rd		2	31.00		0.40	24.80		
Cross Rd		2	84.50		0.40	67.60		
Balaji Layout								
6th Cross Road LHS		1	106.00		0.40	42.40		
Ambabhavani Layout								
7th cross rd		2	201.80		0.40	161.44		
9th Cross Road		2	30.00		0.40	24.00		
						1389.64	89.02	123705.75

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Approved rate	89.02							
KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per								
	Cum							
Brindhavana layout								
1st Main rd		1	179.30	5.40	0.30	290.47		
1st Main rd		1	175.80	6.50	0.30	342.81		
1st cross rd		1	84.50	5.50	0.30	139.43		
1st 'A' Cross Road		1	56.20	5.50	0.30	92.73		
Cross Road -2		1	152.00	6.50	0.30	296.40		
Maruthi Nagara								
1st Main rd		1	149.00	7.00	0.30	312.90		
2nd Cross rd		1	57.70	5.50	0.30	95.21		
Balaji Layout								
6th Cross Road		1	84.50	5.50	0.30	139.43		
10th Cross Road		1	171.70	5.50	0.30	283.31		
2nd Cross Road		1	71.20	5.10	0.30	108.94		
3rd Cross Road		1	43.70	5.50	0.30	72.11		
4th Cross Road		1	35.40	5.50	0.30	58.41		
5th Cross Road		1	33.00	5.40	0.30	53.46		
Nagaraju Layout								
1st Main Road		1	296.60	6.00	0.30	533.88		
Road Connecting 1st & 2nd Main		1	30.00	4.50	0.30	40.50		
2nd Main road		1	140.00	5.50	0.30	231.00		
13th Cross Road		1	28.00	5.50	0.30	46.20		
12th Cross Road		1	28.00	5.50	0.30	46.20		
11th Cross Road		1	25.00	5.50	0.30	41.25		
Duo Marvel Layout								
1st Main Road		1	98.10	6.45	0.23	145.53		
1st 'A' Cross Road		1	135.00	8.20	0.23	254.61		
2nd 'A' Cross Road		1	37.00	5.50	0.23	46.81		
3rd 'A' Cross Road		1	37.00	5.00	0.23	42.55		
4th 'A' Cross Road		1	35.00	7.15	0.23	57.56		
1st Cross Road		1	116.80	5.15	0.23	138.35		
2nd Cross Road		1	129.00	7.80	0.23	231.43		
2nd Main Road		1	133.00	5.00	0.23	152.95		
5th Cross Road		1	387.80	7.70	0.23	686.79		
Road Connecting 1st & 2nd Cross		1	57.50	3.70	0.23	48.93		
1st Cross Road		1	5.20	5.10	0.23	6.10		
2nd Cross Road		1	3.00	7.80	0.23	5.38		
Pipe Line Cut Portion								
5th Main Road		2	286.00	0.80	0.23	105.25		
6th Cross Road		2	100.00	0.80	0.23	36.80		
7th Cross Road		2	100.00	0.80	0.23	36.80		
8th Cross Road		2	100.00	0.80	0.23	36.80		
9th Cross Road		2	100.00	0.80	0.23	36.80		
10th Cross Road		2	100.00	0.80	0.23	36.80		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	11th Cross Road		2	100.00	0.80	0.23	36.80		
	12th Cross Road		2	100.00	0.80	0.23	36.00		
	13th Cross Road		2	101.10	0.80	0.23	37.20		
	Ward 04, GKVK Layout								
	GKVK layout 5th main house no 7		1	52.00	1.60	0.10	8.32		
	1st cross No 11		1	221.00	1.60	0.10	35.36		
	cross roads towards Allalsandra		1	35.00	1.60	0.15	8.40		
	3rd main road		1	72.00	1.60	0.15	17.28		
	2nd main road		1	196.30	1.60	0.10	31.41		
							5541.62	**67.12**	**371953.21**
	Approved rate	67.12							
17	KSRRB 300-46. **Scarifying by mechanical** means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.								
		Sqm							
	Maruthi Nagara								
	1st Cross rd		1	110.20	5.30		584.06		
	3rd Cross rd		1	169.30	5.50		931.15		
	4th Cross rd		1	125.00	5.50		687.50		
	Ambhabhavani layout								
	Main Road		1	310.00	5.50		1705.00		
	7th Cross Road		1	189.00	3.50		661.50		
	8th Cross Road		1	185.00	3.90		721.50		
	Chowdappa Layout		1	232.00	4.80		1113.60		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main road house no 13		1	114.00	5.55		632.70		
							7037.01	**43.40**	**305406.23**
	Approved rate	43.40							
18	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.								
		Sqm							
	Brindhavana layout								
	1st Main rd		1	179.30	5.40		968.22		
	1st Main rd		1	175.80	6.50		1142.70		
	1st cross rd		1	84.50	5.50		464.75		
	1st 'A' Cross Road		1	56.20	5.50		309.10		
	Cross Road -2		1	152.00	6.50		988.00		
	Maruthi Nagara								
	1st Main rd		1	149.00	7.00		1043.00		
	2nd Cross rd		1	57.70	5.50		317.35		
	Balaji Layout								
	6th Cross Road		1	84.50	5.50		464.75		
	10th Cross Road		1	171.70	5.50		944.35		
	2nd Cross Road		1	71.20	5.10		363.12		
	3rd Cross Road		1	43.70	5.50		240.35		
	4th Cross Road		1	35.40	5.47		193.64		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	th Cross Road		1	33.00	5.40		178.20		
	Nagaraju Layout								
	1st Main Road		1	296.60	6.00		1779.60		
	Road Connecting 1st & 2nd Main		1	30.00	4.50		135.00		
	2nd Main road		1	140.00	5.50		770.00		
	13th Cross Road		1	28.00	5.50		154.00		
	12th Cross Road		1	28.00	5.50		154.00		
	11th Cross Road		1	25.00	5.50		137.50		
							10747.63	**6.68**	**71,794.16**
	Approved rate	6.68							
19	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density,								
		Cum							
	Brindhavana layout								
	1st Main rd		1	179.30	5.40	0.15	145.23		
	1st Main rd		1	175.80	6.50	0.15	171.41		
	1st cross rd		1	84.50	5.50	0.15	69.71		
	1st 'A' Cross Road		1	56.20	5.50	0.15	46.37		
	Cross Road -2		1	152.00	6.50	0.15	148.20		
	Maruthi Nagara								
	1st Main rd		1	149.00	7.00	0.15	156.45		
	2nd Cross rd		1	57.70	5.50	0.15	47.60		
	Balaji Layout								
	6th Cross Road		1	84.50	5.50	0.15	69.71		
	10th Cross Road		1	171.70	5.50	0.15	141.65		
	2nd Cross Road		1	71.20	5.10	0.15	54.47		
	3rd Cross Road		1	43.70	5.50	0.15	36.05		
	4th Cross Road		1	35.40	5.50	0.15	29.21		
	5th Cross Road		1	33.00	5.40	0.15	26.73		
	Nagaraju Layout								
	1st Main Road		1	296.60	6.00	0.15	266.94		
	Road Connecting 1st & 2nd Main		1	30.00	4.50	0.15	20.25		
	2nd Main road		1	140.00	5.50	0.15	115.50		
	13th Cross Road		1	28.00	5.50	0.15	23.10		
	12th Cross Road		1	28.00	5.50	0.15	23.10		
	11th Cross Road		1	25.00	5.50	0.15	20.63		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		2	110.20	1.40	0.15	46.28		
	3rd Cross rd		2	169.30	1.40	0.15	71.11		
	4th Cross rd		2	125.00	1.40	0.15	52.50		
	Ambhabhavani layout								
	Main Road		2	310.00	1.50	0.15	139.50		
	7th Cross Road		2	189.00	1.50	0.15	85.05		
	8th Cross Road		2	185.00	1.50	0.15	83.25		
	Chowdappa Layout		2	232.00	1.43	0.15	99.53		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Marvel Layout								
	1st Main Road		1	98.10	6.45	0.15	94.91		
	1st 'A' Cross Road		1	135.00	8.20	0.15	166.05		
	2nd 'A' Cross Road		1	37.00	5.50	0.15	30.53		
	3rd 'A' Cross Road		1	37.00	5.00	0.15	27.75		
	4th 'A' Cross Road		1	35.00	7.15	0.15	37.54		
	1st Cross Road		1	116.80	5.15	0.15	90.23		
	2nd Cross Road		1	129.00	7.80	0.15	150.93		
	2nd Main Road		1	133.00	5.00	0.15	99.75		
	5th Cross Road		1	387.80	7.70	0.15	447.91		
	Road Connecting 1st & 2nd Cross		1	57.50	3.70	0.15	31.91		
	1st Cross Road		1	5.20	5.10	0.15	3.98		
	2nd Cross Road		1	3.00	7.80	0.15	3.51		
	Pipe Line Cut Portion								
	5th Main Road		2	286.00	0.80	0.1	42.72		
	6th Cross Road		2	100.00	0.80	0.1	16.00		
	7th Cross Road		2	100.00	0.80	0.1	16.00		
	8th Cross Road		2	100.00	0.80	0.1	16.00		
	9th Cross Road		2	100.00	0.80	0.1	16.00		
	10th Cross Road		2	100.00	0.80	0.1	16.00		
	11th Cross Road		2	100.00	0.80	0.1	16.00		
	12th Cross Road		2	100.00	0.80	0.1	16.00		
	13th Cross Road		2	101.10	0.80	0.1	16.18		
	Ward 04, GKVK Layout								
	GKVK layout 5th main house no 7		2	52.00	1.25	0.10	13.00		
	1st cross No 11		2	221.00	1.25	0.15	82.88		
	4th main road house no 13		2	130.90	1.25	0.15	49.09		
	cross roads towards Allalsandra		2	35.00	1.30	0.10	9.10		
	3rd main road		2	60.00	1.25	0.15	22.50		
							3721.97	**2094.27**	**7794813.78**
	Approved rate	2094.27							
20	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
		Cum							
	Brindhavana layout								
	1st Main rd		1	179.30	5.40	0.23	222.69		
	1st Main rd		1	175.80	6.50	0.23	262.82		
	1st cross rd		1	84.50	5.50	0.23	106.89		
	1st 'A' Cross Road		1	56.20	5.50	0.23	71.09		
	Cross Road -2		1	152.00	6.50	0.23	227.24		
	Maruthi Nagara								
	1st Main rd		1	149.00	7.00	0.23	239.89		
	2nd Cross rd		1	57.70	5.50	0.23	72.99		
	Balaji Layout								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
h Cross Road		1	84.50	5.50	0.23	106.89		
10th Cross Road		1	171.70	5.50	0.23	217.20		
2nd Cross Road		1	71.20	5.10	0.23	83.52		
3rd Cross Road		1	43.70	5.50	0.23	55.28		
4th Cross Road		1	35.40	5.50	0.23	44.78		
5th Cross Road		1	33.00	5.40	0.23	40.99		
Nagaraju Layout								
1st Main Road		1	296.60	6.00	0.23	409.31		
Road Connecting 1st & 2nd Main		1	30.00	4.50	0.23	31.05		
2nd Main road		1	140.00	5.50	0.23	177.10		
13th Cross Road		1	28.00	5.50	0.23	35.42		
12th Cross Road		1	28.00	5.50	0.23	35.42		
11th Cross Road		1	25.00	5.50	0.23	31.63		
Scarifying Roads								
Maruthi Nagara								
1st Cross rd		1	110.20	7.00	0.23	177.42		
3rd Cross rd		1	169.30	5.50	0.23	214.16		
4th Cross rd		1	125.00	5.50	0.23	158.13		
Ambhabhavani layout								
Main Road		1	310.00	7.15	0.23	509.80		
7th Cross Road		1	189.00	5.50	0.23	239.09		
8th Cross Road		1	185.00	5.80	0.23	246.79		
Chowdappa Layout		1	232.00	6.12	0.23	326.56		
Duo Marvel Layout								
1st Main Road		1	98.10	6.45	0.23	145.53		
1st 'A' Cross Road		1	135.00	8.20	0.23	254.61		
2nd 'A' Cross Road		1	37.00	5.50	0.23	46.81		
3rd 'A' Cross Road		1	37.00	5.00	0.23	42.55		
4th 'A' Cross Road		1	35.00	7.15	0.23	57.56		
1st Cross Road		1	116.80	5.15	0.23	138.35		
2nd Cross Road		1	129.00	7.80	0.23	231.43		
2nd Main Road		1	133.00	5.00	0.23	152.95		
5th Cross Road		1	387.80	7.70	0.23	686.79		
Road Connecting 1st & 2nd Cross		1	57.50	3.70	0.23	48.93		
1st Cross Road		1	5.20	5.10	0.23	6.10		
2nd Cross Road		1	3.00	7.80	0.23	5.38		
Pipe Line Cut Portion								
5th Main Road		2	286.00	0.80	0.23	105.25		
6th Cross Road		2	100.00	0.80	0.23	36.80		
7th Cross Road		2	100.00	0.80	0.23	36.80		
8th Cross Road		2	100.00	0.80	0.23	36.80		
9th Cross Road		2	100.00	0.80	0.2	32.00		
10th Cross Road		2	100.00	0.80	0.2	32.00		
11th Cross Road		2	100.00	0.80	0.2	32.00		
12th Cross Road		2	100.00	0.80	0.2	32.00		
13th Cross Road		2	101.10	0.80	0.2	32.35		
GKVK layout 5th main house no 7		1	52.00	1.65	0.20	17.16		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	cross No 11 RHS		1	221.00	1.65	0.23	83.87		
	4th main road house no 13		1	130.90	4.80	0.23	144.51		
	cross roads towards Allalsandra		1	35.00	1.65	0.22	12.71		
	3rd main road		1	72.00	1.70	0.22	26.93		
	2nd main road		1	196.30	1.65	0.23	74.50		
	1st cross No 11 LHS		1	41.20	1.50	0.23	14.21		
							6911.02	**2100.94**	**14519631.43**
	Approved rate	2100.94							
21	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								
	Brindhavana layout								
	1st Main rd		1	179.30	5.40		968.22		
	1st Main rd		1	175.80	6.50		1142.70		
	1st cross rd		1	84.50	5.50		464.75		
	1st 'A' Cross Road		1	56.20	5.50		309.10		
	Cross Road -2		1	152.00	6.50		988.00		
	Maruthi Nagara								
	1st Main rd		1	149.00	7.00		1043.00		
	2nd Cross rd		1	57.70	5.50		317.35		
	Balaji Layout								
	6th Cross Road		1	84.50	5.50		464.75		
	10th Cross Road		1	171.70	5.50		944.35		
	2nd Cross Road		1	71.20	5.10		363.12		
	3rd Cross Road		1	43.70	5.50		240.35		
	4th Cross Road		1	35.40	5.50		194.70		
	5th Cross Road		1	33.00	5.40		178.20		
	Nagaraju Layout								
	1st Main Road		1	296.60	6.00		1779.60		
	Road Connecting 1st & 2nd Main		1	30.00	4.50		135.00		
	2nd Main road		1	140.00	5.50		770.00		
	13th Cross Road		1	28.00	5.50		154.00		
	12th Cross Road		1	28.00	5.50		154.00		
	11th Cross Road		1	25.00	5.50		137.50		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.20	7.00		771.40		
	3rd Cross rd		1	169.30	5.50		931.15		
	4th Cross rd		1	125.00	5.50		687.50		
	Ambhabhavani layout								
	Main Road		1	310.00	7.15		2216.50		
	7th Cross Road		1	189.00	5.50		1039.50		
	8th Cross Road		1	185.00	5.80		1073.00		
	Chowdappa Layout		1	232.00	6.12		1419.84		
	Duo Marvel Layout								
	1st Main Road		1	98.10	6.45		632.75		
	1st 'A' Cross Road		1	135.00	8.20		1107.00		
	2nd 'A' Cross Road		1	37.00	5.50		203.50		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	1st 'A' Cross Road		1	37.00	5.00		185.00		
	2nd 'A' Cross Road		1	35.00	7.15		250.25		
	1st Cross Road		1	116.80	5.15		601.52		
	2nd Cross Road		1	129.00	7.80		1006.20		
	2nd Main Road		1	133.00	5.00		665.00		
	5th Cross Road		1	387.80	7.70		2986.06		
	Road Connecting 1st & 2nd Cross		1	57.50	3.70		212.75		
	1st Cross Road		1	5.20	5.10		26.52		
	2nd Cross Road		1	3.00	7.80		23.40		
	Pipe Line Cut Portion								
	5th Main Road		2	286.00	0.80		457.60		
	6th Cross Road		2	100.00	0.80		160.00		
	7th Cross Road		2	100.00	0.80		160.00		
	8th Cross Road		2	100.00	0.80		160.00		
	9th Cross Road		2	100.00	0.80		160.00		
	10th Cross Road		2	100.00	0.80		160.00		
	11th Cross Road		2	100.00	0.80		160.00		
	12th Cross Road		2	100.00	0.80		160.00		
	13th Cross Road		2	101.10	0.80		161.76		
	Ward 04, GKVK Layout								
	GKVK layout 5th main house no 7		1	52.00	1.70		88.40		
	1st cross No 11 RHS		1	221.00	1.60		349.70		
	4th main road house no 13		1	130.90	4.75		621.78		
	cross roads towards Allalsandra		1	35.00	1.60		56.00		
	3rd main road		1	72.00	1.75		126.00		
	2nd main road		1	196.30	1.75		343.53		
	1st cross No 11 LHS		1	38.00	1.50		57.00		
							30169.29	**31.16**	**940074.92**
	Approved rate	31.16							
22	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.								
		Sqm					8160.51		
							8160.51	**5.56**	**45,372.44**
	Approved rate	5.56							
23	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per								
		Sqm							
	Brindhavana layout								
	1st Main rd		1	179.30	5.40		968.22		
	1st Main rd		1	175.80	6.50		1142.70		
	1st cross rd		1	84.50	5.50		464.75		
	1st 'A' Cross Road		1	56.20	5.50		309.10		
	Cross Road -2		1	152.00	6.50		988.00		
	Maruthi Nagara								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Main rd		1	149.00	7.00		1043.00		
nd Cross rd		1	57.70	5.50		317.35		
Balaji Layout								
9th Cross Road		1	84.50	5.50		464.75		
10th Cross Road		1	171.70	5.50		944.35		
2nd Cross Road		1	71.20	5.10		363.12		
3rd Cross Road		1	43.70	5.50		240.35		
4th Cross Road		1	35.40	5.50		194.70		
5th Cross Road		1	33.00	5.40		178.20		
Nagaraju Layout								
1st Main Road		1	296.60	6.00		1779.60		
Road Connecting 1st & 2nd Main		1	30.00	4.50		135.00		
2nd Main road		1	140.00	5.50		770.00		
13th Cross Road		1	28.00	5.50		154.00		
12th Cross Road		1	28.00	5.50		154.00		
11th Cross Road		1	25.00	5.50		137.50		
Scarifying Roads								
Maruthi Nagara								
1st Cross rd		1	110.20	7.00		771.40		
3rd Cross rd		1	169.30	5.50		931.15		
4th Cross rd		1	125.00	5.50		687.50		
Ambhabhavani layout								
Main Road		1	310.00	7.15		2216.50		
7th Cross Road		1	189.00	5.50		1039.50		
8th Cross Road		1	185.00	5.80		1073.00		
Chowdappa Layout		1	232.00	6.12		1419.84		
Duo Marvel Layout								
1st Main Road		1	98.10	6.45		632.75		
3rd Cross Road		1	140.40	7.70		1081.08		
1st 'A' Cross Road		1	135.00	8.20		1107.00		
2nd 'A' Cross Road		1	37.00	5.50		203.50		
3rd 'A' Cross Road		1	37.00	5.00		185.00		
4th 'A' Cross Road		1	35.00	7.15		250.25		
1st Cross Road		1	116.80	5.15		601.52		
2nd Cross Road		1	129.00	7.80		1006.20		
2nd Main Road		1	133.00	5.00		665.00		
5th Cross Road		1	387.80	7.70		2986.06		
Road Connecting 1st & 2nd Cross		1	57.50	3.70		212.75		
1st Cross Road		1	5.20	5.10		26.52		
2nd Cross Road		1	3.00	7.80		23.40		
5th Main Road		1	286.00	5.10		1458.60		
6th Cross Road		1	100.00	5.10		510.00		
7th Cross Road		1	100.00	5.00		500.00		
8th Cross Road		1	100.00	5.10		510.00		
9th Cross Road		1	100.00	4.80		480.00		
10th Cross Road		1	100.00	5.10		510.00		
11th Cross Road		1	100.00	5.10		510.00		
12th Cross Road		1	100.00	5.10		510.00		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	th Cross Road		1	101.10	5.10		515.61		
	Ward 04, GKVK Layout								
	GKVK layout 5th main house no 7		1	52.00	6.60		343.20		
	1st cross No 11 RHS		1	221.00	6.60		1454.54		
	4th main road house no 13		1	130.90	5.45		713.41		
	cross roads towards Allalsandra		1	35.00	3.60		126.00		
	3rd main road		1	72.00	6.55		471.60		
	2nd main road		1	171.50	6.95		1191.93		
							37673.49	**13.35**	**502941.02**
	Approved rate	13.35							
24	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen.								
		Cum							
	Brindhavana layout								
	1st Main rd		1	179.30	5.40	0.05	48.41		
	1st Main rd		1	175.80	6.50	0.05	57.14		
	1st cross rd		1	84.50	5.50	0.05	23.24		
	1st 'A' Cross Road		1	56.20	5.50	0.05	15.46		
	Cross Road -2		1	152.00	6.50	0.05	49.40		
	Maruthi Nagara								
	1st Main rd		1	149.00	7.00	0.05	52.15		
	2nd Cross rd		1	57.70	5.50	0.05	15.87		
	Balaji Layout								
	6th Cross Road		1	84.50	5.50	0.05	23.24		
	10th Cross Road		1	171.70	5.50	0.05	47.22		
	2nd Cross Road		1	71.20	5.10	0.05	18.16		
	3rd Cross Road		1	43.70	5.50	0.05	12.02		
	4th Cross Road		1	35.40	5.50	0.05	9.74		
	5th Cross Road		1	33.00	5.40	0.05	8.91		
	Nagaraju Layout								
	1st Main Road		1	296.60	6.00	0.05	88.98		
	Road Connecting 1st & 2nd Main		1	30.00	4.50	0.05	6.75		
	2nd Main road		1	140.00	5.50	0.05	38.50		
	13th Cross Road		1	28.00	5.50	0.05	7.70		
	12th Cross Road		1	28.00	5.50	0.05	7.70		
	11th Cross Road		1	25.00	5.50	0.05	6.88		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.20	7.00	0.05	38.57		
	3rd Cross rd		1	169.30	5.50	0.05	46.56		
	4th Cross rd		1	125.00	5.50	0.05	34.38		
	Ambhabhavani layout								
	Main Road		1	310.00	7.15	0.05	110.83		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Cross Road		1	189.00	5.50	0.05	51.98		
Cross Road		1	162.00	5.80	0.05	46.98		
Marvel Layout								
1st Main Road		1	98.10	6.45	0.05	31.64		
1st 'A' Cross Road		1	135.00	8.20	0.05	55.35		
2nd 'A' Cross Road		1	37.00	5.50	0.05	10.18		
3rd 'A' Cross Road		1	37.00	5.00	0.05	9.25		
4th 'A' Cross Road		1	35.00	7.15	0.05	12.51		
1st Cross Road		1	116.80	5.15	0.05	30.08		
2nd Cross Road		1	129.00	7.80	0.05	50.31		
2nd Main Road		1	133.00	5.00	0.05	33.25		
5th Cross Road		1	387.80	7.70	0.05	149.30		
Road Connecting 1st & 2nd Cross		1	57.50	3.70	0.05	10.64		
1st Cross Road		1	5.20	5.10	0.05	1.33		
2nd Cross Road		1	3.00	7.80	0.05	1.17		
Pipe Line Cut Portion								
5th Main Road		2	286.00	0.80	0.05	22.88		
6th Cross Road		2	100.00	0.80	0.05	8.00		
7th Cross Road		2	100.00	0.80	0.05	8.00		
8th Cross Road		2	100.00	0.80	0.05	8.00		
9th Cross Road		2	100.00	0.80	0.05	8.00		
10th Cross Road		2	100.00	0.80	0.05	8.00		
11th Cross Road		2	100.00	0.80	0.05	8.00		
12th Cross Road		2	100.00	0.80	0.05	8.00		
13th Cross Road		2	101.10	0.80	0.05	8.09		
Profile Correction						85.00		
GKVK layout 5th main house no 7		1	52.00	1.65	0.05	4.29		
1st cross No 11 RHS		1	221.00	1.65	0.05	18.23		
4th main road house no 13		1	130.90	5.40	0.05	35.34		
cross roads towards Allalsandra		1	35.00	1.65	0.05	2.89		
3rd main road		1	72.00	1.65	0.05	5.94		
2nd main road		1	196.30	3.95	0.05	38.77		
1st cross No 11 LHS		1	39.80	1.60	0.05	3.18		
						1549.00	**6726.80**	**10419813.20**
Approved rate	6726.80							
25	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric								
	Cum							
Brindhavana layout								
1st Main rd		1	179.30	5.40	0.04	38.73		
1st Main rd		1	175.80	6.50	0.04	45.71		
1st cross rd		1	84.50	5.50	0.04	18.59		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
'A' Cross Road		1	56.20	5.50	0.03	9.27		
Cross Road -2		1	60.00	6.50	0.03	11.70		
Maruthi Nagara								
1st Main rd		1	149.00	7.00	0.04	41.72		
2nd Cross rd		1	57.70	5.50	0.03	9.52		
Balaji Layout								
6th Cross Road		1	84.50	5.50	0.03	13.94		
10th Cross Road		1	171.70	5.50	0.04	37.77		
2nd Cross Road		1	71.20	5.10	0.03	10.89		
3rd Cross Road		1	43.70	5.50	0.03	7.21		
4th Cross Road		1	35.40	5.50	0.03	5.84		
5th Cross Road		1	33.00	5.40	0.03	5.35		
Nagaraju Layout								
1st Main Road		1	296.60	6.00	0.04	71.18		
Road Connecting 1st & 2nd Main		1	30.00	4.50	0.03	4.05		
2nd Main road		1	140.00	5.50	0.04	30.80		
13th Cross Road		1	28.00	5.50	0.03	4.62		
12th Cross Road		1	28.00	5.50	0.03	4.62		
11th Cross Road		1	25.00	5.50	0.03	4.13		
Scarifying Roads								
Maruthi Nagara								
1st Cross rd		1	110.20	7.00	0.04	30.86		
3rd Cross rd		1	169.30	5.50	0.04	37.25		
4th Cross rd		1	125.00	5.50	0.03	20.63		
Ambhabhavani layout								
Main Road		1	310.00	7.15	0.04	88.66		
7th Cross Road		1	189.00	5.50	0.04	41.58		
8th Cross Road		1	185.00	5.80	0.03	32.19		
Chowdappa Layout		1	232.00	6.12	0.04	56.79		
Duo Marvel Layout								
1st Main Road		1	98.10	6.45	0.03	18.98		
3rd Cross Road		1	140.40	7.70	0.04	43.24		
1st 'A' Cross Road		1	135.00	8.20	0.03	33.21		
2nd 'A' Cross Road		1	37.00	5.50	0.03	6.11		
3rd 'A' Cross Road		1	37.00	5.00	0.03	5.55		
4th 'A' Cross Road		1	35.00	7.15	0.03	7.51		
1st Cross Road		1	116.80	5.15	0.03	18.05		
2nd Cross Road		1	129.00	7.80	0.04	40.25		
2nd Main Road		1	133.00	5.00	0.03	19.95		
5th Cross Road		1	387.80	7.70	0.03	89.58		
Road Connecting 1st & 2nd Cross		1	57.50	3.70	0.03	6.38		
1st Cross Road		1	5.20	5.10	0.03	0.80		
2nd Cross Road		1	3.00	7.80	0.04	0.94		
5th Main Road		1	286.00	5.10	0.04	58.34		
6th Cross Road		1	100.00	5.10	0.04	20.40		
7th Cross Road		1	100.00	5.00	0.04	20.00		
8th Cross Road		1	100.00	5.10	0.04	20.40		
9th Cross Road		1	100.00	4.80	0.04	19.20		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	h Cross Road		1	100.00	5.10	0.04	20.40		
	1th Cross Road		1	100.00	5.10	0.04	20.40		
	12th Cross Road		1	100.00	5.10	0.04	20.40		
	13th Cross Road		1	101.10	5.10	0.04	20.62		
	GKVK layout 5th main house no 7		1	52.00	6.60	0.04	13.73		
	1st cross No 11 RHS		1	221.00	6.60	0.04	58.34		
	4th main road house no 13		1	130.90	5.45	0.04	24.97		
	cross roads towards Allalsandra		1	35.00	3.60	0.04	4.41		
	3rd main road		1	72.00	6.55	0.04	16.51		
	2nd main road		1	196.30	6.95	0.04	47.75		
							1357.73	**7913.04**	**10743748.06**
	Approved rate	7913.04							
26	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
		Sqm							
	Brindhavana layout								
	1st Main rd		2.5	179.30	0.10		44.83		
	1st Main rd		2.5	175.80	0.10		43.95		
	1st cross rd		2.0	84.50	0.10		16.90		
	1st 'A' Cross Road		2.0	56.20	0.10		11.24		
	Cross Road -2		2.5	152.00	0.10		38.00		
	Maruthi Nagara								
	1st Main rd		2.5	149.00	0.10		37.25		
	2nd Cross rd		2.0	57.70	0.10		11.54		
	Balaji Layout								
	6th Cross Road		2.0	84.50	0.10		16.90		
	10th Cross Road		2.0	171.70	0.10		34.34		
	2nd Cross Road		2.0	71.20	0.10		14.24		
	3rd Cross Road		2.0	43.70	0.10		8.74		
	4th Cross Road		2.0	35.40	0.10		7.08		
	5th Cross Road		2.5	33.00	0.10		8.25		
	Nagaraju Layout								
	1st Main Road		2.5	296.60	0.10		74.15		
	Road Connecting 1st & 2nd Main		2.0	30.00	0.10		6.00		
	2nd Main road		2.5	140.00	0.10		35.00		
	13th Cross Road		2.5	28.00	0.10		7.00		
	12th Cross Road		2.5	28.00	0.10		7.00		
	11th Cross Road		2.5	25.00	0.10		6.25		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		2.5	110.20	0.10		27.55		
	3rd Cross rd		2.5	169.30	0.10		42.33		
	4th Cross rd		2.0	125.00	0.10		25.00		
	Ambhabhavani layout								

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	in Road		2.5	310.00	0.10		77.50		
	7th Cross Road		2.0	189.00	0.10		37.80		
	8th Cross Road		2.0	185.00	0.10		37.00		
	Chowdappa Layout		2.5	232.00	0.10		58.00		
	Duo Marvel Layout								
	1st Main Road		2.0	98.10	0.10		19.62		
	3rd Cross Road		2.5	140.40	0.10		35.10		
	1st 'A' Cross Road		2.5	135.00	0.10		33.75		
	2nd 'A' Cross Road		2.0	37.00	0.10		7.40		
	3rd 'A' Cross Road		2.0	37.00	0.10		7.40		
	4th 'A' Cross Road		2.0	35.00	0.10		7.00		
	1st Cross Road		2.0	116.80	0.10		23.36		
	2nd Cross Road		2.0	129.00	0.10		25.80		
	2nd Main Road		2.0	133.00	0.10		26.60		
	5th Cross Road		2.5	387.80	0.10		96.95		
	Road Connecting 1st & 2nd Cross		2.0	57.50	0.10		11.50		
	1st Cross Road		2.0	5.20	0.10		1.04		
	2nd Cross Road		2.0	3.00	0.10		0.60		
	5th Main Road		2.5	286.00	0.10		71.50		
	6th Cross Road		2.0	100.00	0.10		20.00		
	7th Cross Road		2.0	100.00	0.10		20.00		
	8th Cross Road		2.0	100.00	0.10		20.00		
	9th Cross Road		2.0	100.00	0.10		20.00		
	10th Cross Road		2.0	100.00	0.10		20.00		
	11th Cross Road		2.0	100.00	0.10		20.00		
	12th Cross Road		2.0	100.00	0.10		20.00		
	13th Cross Road		2.0	101.10	0.10		20.22		
	GKVK layout 5th main house no		2.0	52.00	0.10		10.40		
	1st cross No 11 RHS		2.0	200.00	0.10		40.00		
	4th main road house no 13		2.0	114.00	0.10		22.80		
	cross roads towards Allalsandra		2.0	35.00	0.10		7.00		
	3rd main road		2.0	72.00	0.10		14.40		
	2nd main road		2.0	196.30	0.10		39.26		
	2nd main road		1.0	215.00	0.10		21.50		
							1417.03	477.39	676475.95
	Approved rate	477.39							
27	KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Nos							
Brindhavana layout								
1st Main rd		3	25.00			75.00		
1st Main rd		3	25.00			75.00		
1st cross rd		2	12.00			24.00		
1st 'A' Cross Road		2	8.00			16.00		
Cross Road -2		2	21.00			42.00		
Maruthi Nagara								
1st Main rd		2.0	8.00			16.00		
2nd Cross rd		2	8.00			16.00		
Balaji Layout								
6th Cross Road		2	12.00			24.00		
10th Cross Road		2	24.00			48.00		
2nd Cross Road		2	10.00			20.00		
3rd Cross Road		2	6.00			12.00		
4th Cross Road		2	5.00			10.00		
5th Cross Road		3	4.00			12.00		
Nagaraju Layout								
1st Main Road		2	42.00			84.00		
Road Connecting 1st & 2nd Main		2	20.00			40.00		
2nd Main road		2	4.00			8.00		
13th Cross Road		2	4.00			8.00		
12th Cross Road		3	3.00			9.00		
11th Cross Road		2	25.00			50.00		
Scarifying Roads								
Maruthi Nagara								
1st Cross rd		2	15.00			30.00		
3rd Cross rd		3	24.00			72.00		
4th Cross rd		2	17.00			34.00		
Ambhabhavani layout								
Main Road		2	44.00			88.00		
7th Cross Road		2	27.00			54.00		
8th Cross Road		2	20.00			40.00		
Chowdappa Layout		2	33.00			66.00		
Duo Marvel								
1st Main Road		2	14.00			28.00		
3rd Cross Road		3	20.00			60.00		
1st 'A' Cross Road		3	19.00			57.00		
2nd 'A' Cross Road		2	6.00			12.00		
3rd 'A' Cross Road		2	5.00			10.00		
4th 'A' Cross Road		2	5.00			10.00		
1st Cross Road		2	17.00			34.00		
2nd Cross Road		2	18.00			36.00		
2nd Main Road		2	19.00			38.00		
5th Cross Road		3	56.00			162.00		
Road Connecting 1st & 2nd Cross Rooad		2	8.00			16.00		
5th Main Road		3	44.00			132.00		
6th Cross Road		2	15.00			30.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	n Cross Road		2	14.00			28.00		
	8th Cross Road		2	14.00			28.00		
	9th Cross Road		2	14.00			28.00		
	10th Cross Road		2	14.00			28.00		
	11th Cross Road		2	14.00			28.00		
	12th Cross Road		2	14.00			28.00		
	13th Cross Road		2	14.00			28.00		
	GKVK layout 5th main house no		2	8.00			16.00		
	1st cross No 11 RHS		2	31.00			62.00		
	4th main road house no 13		2	18.00			36.00		
	cross roads towards Allalsandra		2	7.00			14.00		
	3rd main road		2	10.00			20.00		
	2nd main road		2	28.00			56.00		
	2nd main road		1	30.00			30.00		
							2028.00	**375.01**	**760520.28**
	Approved rate	375.01							
28	KSRRB M600-1.Providing and **Constructing dry lean cement concrete** mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor.								
		Cum							
	cc road 4th cross road house no 84 Narayanappa layout		1	105.00	4.70	0.15	74.03		
	1st cross road		1	60.00	5.00	0.15	45.00		
	2nd cross road kavitha chandra shekar		1	25.00	4.09	0.15	15.34		
							134.36	**3989.34**	**536017.70**
	Approved rate	3989.34							
29	**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.								
		Cum							
	cc road 4th cross road house no 84 Narayanappa layout		1	105.00	4.70	0.15	74.03		
	1st cross road		1	165.60	4.40	0.15	109.30		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	d cross road kavitha chandra shekar		1	110.20	4.15	0.15	68.60		
	3rd cross road Y M Venkatesh house		1	92.00	4.17	0.15	57.55		
							309.47	5470.47	1692927.20
	Approved rate	5470.47							
								Modified Construction Cost	87792575.45
								Towards GST 12% of Modified Construction Cost	9269486.13
								Total	97062061.58
								Miscellaneous & Rounding Off	1,613.02
								Approved Amount	97063674.60

Assistant Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded for Rs 97063674.60
Head of A/C P 3075
CER NO :70..... Dt:03.12.2021